

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

Listing of Claims:

1. (Currently amended) A light guide plate characterized in having a groove in a snaking pattern formed on a transparent plate having light-transmitting characteristics, said groove having a V-shaped cross section.

2. (Currently amended) ~~A~~The light guide plate claimed in claim 1 characterized in having said groove is machined to have ~~a~~said V-shaped cross section by means of a cutting tool.

3. (Currently amended) A method of manufacturing a light guide plate characterized in forming a groove in a snaking pattern on a transparent plate having light-transmitting characteristics using a cutting tool, said groove being machined to have a V-shaped cross section.

4. (Canceled).

5. (Currently amended) ~~A~~The method of manufacturing a light guide plate claimed in claim 4 characterized in finishing said V-shaped groove's side surfaces smooth and sharp using a V-shaped cutter as a cutting tool for said groove in order to be able to reflect light efficiently by said groove.

6. (Previously presented) A light source apparatus characterized in comprising: a light guide plate having a groove with a V-shaped cross section in a snaking pattern formed on a transparent plate having light-transmitting characteristics; and

a light source disposed on said light guide plate's edge, wherein said groove with the V-shaped cross section reflects light emitted by said light source into said light guide plate's inside so that said light guide plate radiates the light outside.

7. (Previously presented) A light guide plate characterized in having a groove with a V-shape cross section in a snaking pattern on a transparent plate having light-transmitting characteristics.

8. (Previously presented) A method of manufacturing a light guide plate characterized in forming a groove with a V-shaped cross section in a snaking pattern on a transparent plate having light-transmitting characteristics using a cutting tool.

9. (Currently amended) ~~A~~The method of manufacturing a light guide plate claimed in claim 8 characterized in finishing said V-shaped groove's side surfaces smooth and sharp using a V-shaped cutter as a cutting tool for said groove in order to be able to reflect light efficiently by said groove.

10. (Currently amended) A light guide plate characterized in comprising: a transparent plate having light-transmitting characteristics;

a first snaking pattern of ~~groove~~grooves formed on said transparent plate; and

a second pattern of ~~groove~~grooves that is formed to intersect or contact with said first pattern of ~~groove~~grooves on said surface; wherein the light that passes through said transparent plate is reflected by said first pattern of ~~groove~~grooves and said second pattern of ~~groove~~grooves.

11. (Currently amended) ~~A~~The light guide plate claimed in claim 10 characterized in said second pattern of ~~groove~~grooves is formed in a snaking pattern.

12. (Currently amended) ~~A~~The light guide plate claimed in claim 10 characterized in said second pattern of ~~groove~~grooves is formed in a linear pattern.

13. (Currently amended) ~~A~~The light guide plate claimed in claim 11 characterized in that said first pattern of ~~groove~~grooves and said second pattern of ~~groove~~grooves intersect or contact with each other as a result of having said first pattern of ~~groove's~~grooves' and said second pattern of ~~groove's~~grooves' translating directions are set substantially parallel to each other and their snaking phases are set different from each other.

14. (Currently amended) ~~A~~The light guide plate claimed in claim 13 characterized in that the difference of the snaking phases of said first pattern of ~~groove~~grooves and said second pattern of ~~groove~~grooves is set to approximately 180 degrees.

15. (Currently amended) A light guide plate claimed in claim 10 characterized in that said first pattern of ~~groove's~~grooves' translating direction is set unparallel to said second pattern of ~~groove's~~grooves' translation direction so that said first and second patterns of grooves intersect or contact with each other.

16. (Currently amended) ~~A~~The light guide plate claimed in claim 10 wherein a plurality of said first pattern of grooves and a plurality of said second pattern of grooves are

formed.

17. (Currently amended) ~~A~~The light guide plate claimed in claim ~~10~~16 characterized in having said first pattern of ~~groove(s)~~grooves snaking partly in a curvilinear form.

18. (Currently amended) A light guide plate claimed in claim 10 characterized in having said first pattern of ~~groove(s)~~grooves snaking substantially in a sinusoidal form.

19. (Currently amended) ~~A~~The light guide plate claimed in claim 10 characterized in having said first pattern of ~~groove(s)~~grooves snaking in a form of straight line segments combined noncontiguously.

20. (Currently amended) ~~A~~The light guide plate claimed in claim 10 characterized in having hexagonal areas surrounded by said first and second patterns of grooves that are intersecting or contacting with each other.

21. (Previously presented) A light source apparatus characterized in comprising: a light guide plate claimed in claim 10; and

a light source disposed on said light guide plate's edge, wherein said groove with the V-shaped cross section reflects light emitted by said light source into said light guide plate's inside so that said light guide plate radiates the light outside.

22. (Previously presented) A liquid crystal display device characterized in comprising: a light source apparatus claimed in claim 21; and

a liquid crystal panel disposed in parallel with said light guide plate.

23. (Canceled).